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Air Operating Permit Excess Emissions Report Form Part II

Name of Facility	Shell, Puget Sound Refinery		Reported by		Tim Figgie
Date of notification	August 20, 2014		Incident type: breakdown/ upset/startup or shutdown		Upset
Start Date	August 20, 2014		Start Time:		2:00 PM
End Date	August 21, 2014		End Time:		6:00 AM
Process unit or system	n(s): SRU3	3			
Incident Description					
On August 20, 2014 at valves tripped open to a surge of nitrogen floreducing AAG flow in p	the incineral withat tripped preparation for the Estart the TG am. The undby (no feed lugged demisso 2 breaktly to bypass the the incineral purs. The under the ESO2 rolling and the EsO3 rolling and	ator due to ed open due or a planne of the unit was successful to the unit to the unit to the unit was frough from the blower system of the unit was restances. The was restances of the unit was restances.	a TGTU inline to low AAG f d oxygen gen nsuccessful so cessfully resta t). due to a pluga as caused by a n the TGTU1 in ystem but the At that time carted at abou	heater trip. The feed flow. Operation unit (and feed was remored at about 4 feed demister particularly H2 analytication and feed feed feed feed feed feed feed fe	is trip was caused by rations had been third party unit) oved from the SRU3 :43 am and SRU 3 ad on the booster lyzer and H2 flow luench column. The eater tripped out, and remained in hot
Immediate steps take	en to limit th	e duration	and/or quanti	ty of excess en	nissions:
Operations attempted restart of the TGTU as soon as possible and AAG feed was taken out of SRU3.					
Applicable air operating permit term(s): 5.8.6					
Applicable air operating permit term(s): 5.8.6					
		Pollutant(s SO2):	Pounds (Estim 21	nate):
Scheduled e Poor or inac Careless, po Poor or inac	result of the equipment stequipment slequate desipor, or inadedequate mainly preventab	tartup hutdown gn quate oper ntenance	ation	apply):	

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Did the facility receive any complaints from the public?
No ☐ Yes (provide details below)
Did the incident result in the violation of an ambient air quality standard
No☐ Yes (provide details below)
Root and other contributing causes of incident:
The root cause of this event was low AAG feed to SRU3.
The root cause of the incident was: (The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615)) Identified for the first time
Identified as a recurrence (explain previous incident(s) below – provide dates)
Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions below? No Yes (describe below)
Definition of NSPS "Malfunction": Any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2 Definition of NESHAP "Malfunction": Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2 Analyses of measures available to reduce likelihood of recurrence (evaluate possible design, operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost; determine if an outside consultant should be retained to assist with analyses):
To prevent a reoccurrence of this event, shutdown/hot standby procedures will be reviewed and updated as needed. Also, the H2 analyzer and flow controller have been repaired.
Description of corrective action to be taken (include commencement and completion dates): See above
If correction not required, explain basis for conclusion: See above
Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107).
Is the investigation continuing? ⊠No □Yes Is the source requesting additional time for completion of the report? ⊠No □Yes

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Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete.

Prepared By: _ Lisa Augustine/Tim Figgie Date: ____ September 17, 2014